

ABSTRACT OF THE DISCLOSURE

A linear motor includes an outer case; a stator installed at the inner side the outer case and having a first and a second armature coil parts; a first to a third shafts assembled in the inner side of the first and the second armature coil parts of the stator; a first permanent magnet part having a plurality of permanent magnets assembled in a ring-type at the outer circumferential surface of the first shaft; and a second permanent magnet part having a plurality of permanent magnets assembled at the outer circumferential surface of the third shaft. Since the first permanent magnet and the second permanent magnet are separately constructed on the outer circumferential surface of the shaft to be assembled, the linear movement of the linear motor can be precisely controlled when the linear motor is linearly moved, and the permanent magnet to be assembled at the rotation movement zone can be attached later.